

# ANNUAL INDEX, Vol. 75 ◀◀◀

## A

<b>Aalborg Portland Cement Co.,</b>	
Denmark, May	78
<b>Aggregate Plants</b>	
—Single pit provides basalt, gneiss, & sand, June	81
—Three U.K. aggregate plants go onstream, June	65
<b>Aggregates</b>	
—Elmhurst-Chicago Stone Co.: Four generations of success, Feb.	54
Air classification and evaluation, April	70
Alexander, Robert & Justin Messinger	
—Guidelines simplify hardfacing, Aug.	75
American Cement Co., Peerless Div., River Rouge, Mich., July	99
Anna Quarries, Inc., Anna, Ill., June	86
Arizona plant boosts metallurgical lime production, July	82
Association publications provide safety guidance, March	70
Automatic re-indenting cuts "out-of-spec" losses, April	84
Automatic sand classifier processes aggregate, Sept.	64
<b>Automation</b>	
—Centralized lubrication cuts costs at Gulf coast Portland Cement Co., Feb.	82
—Computerization speeds weigh station stops, Sept.	102
—Crushing, grinding, & feed controls enhance manpower productivity, May	110
—Czech pilot plant investigates automation problems in cement manufacture, May	117
—Multivariable control programming maintains steady-state operation, May	124
Automation speeds blending, loading at Gifford-Hill, Nov.	75
Axial priming improves ANFO blasting, April	76

## B

<b>Barge shipping extends Texas company's market, Sept.</b>	70
<b>Bear Gap—one of three Pennsy sandstone producers, Oct.</b>	80
<b>Bear Gap Stone Co., Elysbury, Pa., Oct.</b>	80
<b>Bencinciation</b>	
—Liquid/solids separation via wet classification, Sept.	84
<b>Bin design</b>	
—Modern bin design facilitates bulk solids flow, Feb.	83
<b>Blasting</b>	
—Axial priming improves ANFO blasting, April	76
—Presplitting bonuses optimize blasting, Aug.	58
Blasting (Buyer's Guide), Jan.	127
<b>Blue Circle Aggregates Ltd.</b>	
Elford plant, Elford, England, June	65
Hunley Wood, Cheadle, Staffs, England, June	65
Repton, Burton on Trent, Staffs, England, June	65
Bolman, S.K.	
—What's new in air drilling, June	62
<b>Brakes</b>	
—Truck brakes face stiffer regulations, April	78
<b>Bulk storage, packaging, &amp; shipping (Buyer's Guide), Jan.</b>	138
<b>Bulk storage, packaging, &amp; shipping, new products introduced in 1971, Jan.</b>	94
<b>Burners</b>	
—Double-acting burners optimize flame formation, July	80

## C

<b>Calaveras Cement Div., Flintkote Co., San Andreas, Calif., May</b>	101
<b>Canadian cement: its influence in the U.S., Aug.</b>	70
<b>Capitol Sand &amp; Gravel Co., Cross Plains, Wis., March</b>	84
<b>Celotex Corp., Fort Dodge, Iowa, Oct.</b>	68
<b>Cement</b>	
—Canadian cement: its influence in the U.S., Aug.	70
—Cycling with cement, Dec.	66
—New cement process offers many "pluses", Aug.	57
—The year ahead: 1973, Dec.	54
<b>Cement plants</b>	
—All-new American Cement plant supplies 940,000 tpy, July	99
—Cement plants aboard sport latest equipment, Aug.	79

—Denmark's newest cement kiln produces 2,500 tpd of clinker, May	78
—Dragon Cement's modernization guided by five basic design concepts, May	86
—Limestone slurry transported via 17.6-mile underground pipeline (Calaveras Cement Div.), May	101
—Societe des Ciments Libanais boosts production with new plant, May	67
Cement plants aboard sport latest equipment, Aug.	79

Cement: shipments from mills may set new record, Dec.

Centralized lubrication cuts costs at Gulf coast Portland Cement Co., Feb.

Ceramic liners increase resistance to abrasion & erosion, June

Chaplin, Anton & Donald P. Meffert

—Source sampling—the cement plant's Geiger counter, Aug.

Chimney duo yields to minitack, Oct.

Choosing a kiln air seal, April

Clamshell dredge streamlines operation for Wisconsin producer, March

Classification

—Fluidized bed separator increases recovery of fine particle sizes, Sept.

—Liquid/solids separation via wet classification, Sept.

W. L. Cobb Construction Co., Ara Peka, Fla., Nov.

Complete engineering services for process plants (Buyer's Guide), Jan.

Computerization speeds weigh station stops, Sept.

Concrete & Aggregates 1972 Show Scrapbook, The, April

Conrad, Guenter

—Preprocessing in crusher/dryer improves milling efficiency, Nov.

Construction

—Keys to successful cement plant construction, Feb.

—Metro displays healthy appetite for aggregate, Oct.

Consultants specializing in the rock products field (Buyer's Guide), Jan.

Crawler-mounted crusher solves wet quarry problem, Nov.

Crushed stone

—The year ahead: 1973, Dec.

—Traveling plant supplies backfill for pipeline project, April

Crushed stone: Construction projects point to increasing output, Dec.

Crushed stone plants

—Automation speeds blending, loading at Gifford-Hill, Nov.

—Bear Gap—one of three Pennsy sandstone producers, Oct.

—Crawler-mounted crusher solves wet quarry problem, Nov.

—Hammermill reclaims surplus stone, boosts plant capacity, Wagner Quarries Co., Dec.

—Mobile plant meets Everglades building demands, June

—Multiple-stage crushing plant supplies California Water Project, Aug.

—New 1,000-tph plant revitalizes century-old quarry, June

—Portable crusher feeds Kaw Dam project, Nov.

—Quarry thrives in urban area, Elmhurst-Chicago Stone Co., Inc., Feb.

Crushers

—Prevent crusher breakdown, June

—Secondary crushers for clinker pre-crushing, May

Crushing

—Crushing plant design uses "building-block" approach, Sept.

Crushing, grinding, & feed controls enhance manpower productivity, May

Crushing, grinding, & milling, (Buyer's Guide), Jan.

Crushing, grinding, & milling, new products introduced in 1971, Jan.

Crushing plant design uses "building-block" approach, Sept.

Crushing plants

—Ecology-minded contractor recycles pavement, Oct.

Cunningham, Chet

—Big rock trucks for 1972, The, Feb.

Diesel engine research improves power plants, Oct.

—Drivers can guard against slowdown, breakdown, March

—Radial-ply, steel-belted tire, The—Check its advantages for your trucks, April

—Specifying truck transmissions? June

—Truck brakes face stiffer regulations, April	78
<b>Curtis Construction Co., Pacific Northwest, June</b>	81
<b>Customizing baghouses for clinker coolers, Nov.</b>	94
Cut costs with solid film lubricants May	94
Cycling with cement, Dec.	66
Czech pilot plant investigates automation problems in cement manufacture, May	117

## D

<b>DeBeus, Anthony J., &amp; William J. Horst</b>	
—A 1,000-bpd increase with new kiln chain system, Keystone Portland Cement Co., Dec.	85
<b>Denmark's newest cement kiln produces 2,500 tpd of clinker, May</b>	78
<b>Dick, C. J.</b>	
—Maintenance of reciprocating grate coolers, Feb.	86
<b>Diesel engine research improves power plants, Oct.</b>	88
<b>Directory of Services (Buyer's Guide), Jan.</b>	151
<b>Domonoske, Dean D., &amp; Joel F. Loveridge</b>	
—Cut costs with solid film lubricants, May	94
<b>Double-acting burners optimize flame formation, July</b>	80
<b>Dragon Cement Co., Div. of Martin Marietta Corp., Thomaston, Me., May</b>	86
<b>Dragon Cement's modernization guided by five basic design concepts, May</b>	86
<b>Drayton, W. E.</b>	
—Know your kiln's chain system, May	88
<b>Dredging</b>	
—Clamshell dredge streamlines operation for Wisconsin producer, March	84
—Twin-bucket clamshell dredge excavates sand & gravel at 1,000 tph, Aug.	65
<b>Drilling</b>	
—How to save money and minimize downtime on drill jobs, Sept.	98
<b>Drilling (Buyer's Guide), Jan.</b>	126
Drilling & blasting, new products introduced in 1971, Jan.	79
<b>Drills</b>	
—What's new in air drilling, June	62
<b>Driverless truck is reliable robot, April</b>	68
Drivers can guard against slowdown, breakdown, March	82
<b>Dundee Cement Co., Dundee, Mich., May</b>	124
<b>Dust collection</b>	
—Customizing baghouses for clinker coolers, Nov.	94
—Selecting equipment for dust collection from rotary lime kilns? Part 1, July	87
—Part 2, Aug.	66
—Source sampling—the cement plant's Geiger counter, Aug.	83
<b>Dust collection &amp; treatment, (Buyer's Guide), Jan.</b>	136
<b>Dust collection &amp; treatment, new products introduced in 1971, Jan.</b>	92
<b>Dust suppression, May</b>	137

## E

<b>Ecology</b>	
—Ecology-minded contractor recycles pavement, Oct.	88
—Ontario firm combines PR and restoration, May	136
<b>Ecology-minded contractor recycles pavement, Oct.</b>	88
<b>Ecology specter pervades LAPA meeting, Dec.</b>	88
<b>Economy, versatility: keys to elevating scrapers' success, Feb.</b>	87
<b>Elevating scrapers</b>	
—Economy, versatility: keys to elevating scrapers' success, Feb.	87
—Elevating scrapers cut costs of overburden removal, March	87
Elevating scrapers	
—New use for old mining tool, June	84
Elevating scrapers cut cost of overburden removal, March	87
<b>Elmhurst-Chicago Stone Co., Elmhurst, Ill., Feb.</b>	54
<b>Engineering a plant for safety, March</b>	78
<b>Engines</b>	
—Diesel engine research improves power plants, Oct.	58
<b>Environmental control</b>	
—Environmental issues confront lime plants, July	71
<b>Environmental issues confront lime plants, July</b>	71

# ANNUAL INDEX, Vol. 75 ◀◀◀

## A

<b>Aalborg Portland Cement Co.,</b>	
Denmark, May	78
<b>Aggregate Plants</b>	
—Single pit provides basalt, gneiss, & sand, June	81
—Three U.K. aggregate plants go onstream, June	65
<b>Aggregates</b>	
—Elmhurst-Chicago Stone Co.: Four generations of success, Feb.	54
Air classification and evaluation, April	70
Alexander, Robert & Justin Messinger	
—Guidelines simplify hardfacing, Aug.	75
American Cement Co., Peerless Div., River Rouge, Mich., July	99
Anna Quarries, Inc., Anna, Ill., June	86
Arizona plant boosts metallurgical lime production, July	82
Association publications provide safety guidance, March	70
Automatic re-indenting cuts "out-of-spec" losses, April	84
Automatic sand classifier processes aggregate, Sept.	64
<b>Automation</b>	
—Centralized lubrication cuts costs at Gulf coast Portland Cement Co., Feb.	82
—Computerization speeds weigh station stops, Sept.	102
—Crushing, grinding, & feed controls enhance manpower productivity, May 110	
—Czech pilot plant investigates automation problems in cement manufacture, May	117
—Multivariable control programming maintains steady-state operation, May 124	
Automation speeds blending, loading at Gifford-Hill, Nov.	75
Axial priming improves ANFO blasting, April	76

## B

<b>Barge shipping extends Texas company's market, Sept.</b>	70
<b>Bear Gap—one of three Pennsy sandstone producers, Oct.</b>	80
<b>Bear Gap Stone Co., Elysbury, Pa., Oct.</b>	80
<b>Bencinciation</b>	
—Liquid/solids separation via wet classification, Sept.	84
<b>Bin design</b>	
—Modern bin design facilitates bulk solids flow, Feb.	83
<b>Blasting</b>	
—Axial priming improves ANFO blasting, April	76
—Presplitting bonuses optimize blasting, Aug.	58
Blasting (Buyer's Guide), Jan.	127
<b>Blue Circle Aggregates Ltd.</b>	
Elford plant, Elford, England, June	65
Hunley Wood, Cheadle, Staffs, England, June	65
Repton, Burton on Trent, Staffs, England, June	65
Bolman, S.K.	
—What's new in air drilling, June	62
<b>Brakes</b>	
—Truck brakes face stiffer regulations, April	78
<b>Bulk storage, packaging, &amp; shipping (Buyer's Guide), Jan.</b>	138
<b>Bulk storage, packaging, &amp; shipping, new products introduced in 1971, Jan.</b>	94
<b>Burners</b>	
—Double-acting burners optimize flame formation, July	80

## C

<b>Calaveras Cement Div., Flintkote Co., San Andreas, Calif., May</b>	101
<b>Canadian cement: its influence in the U.S., Aug.</b>	70
<b>Capitol Sand &amp; Gravel Co., Cross Plains, Wis., March</b>	84
<b>Celotex Corp., Fort Dodge, Iowa, Oct.</b>	68
<b>Cement</b>	
—Canadian cement: its influence in the U.S., Aug.	70
—Cycling with cement, Dec.	66
—New cement process offers many "pluses", Aug.	57
—The year ahead: 1973, Dec.	54
<b>Cement plants</b>	
—All-new American Cement plant supplies 940,000 tpy, July	99
—Cement plants aboard sport latest equipment, Aug.	79

—Denmark's newest cement kiln produces 2,500 tpd of clinker, May	78
—Dragon Cement's modernization guided by five basic design concepts, May	86
—Limestone slurry transported via 17.6-mile underground pipeline (Calaveras Cement Div.), May	101
—Societe des Ciments Libanais boosts production with new plant, May	67
Cement plants aboard sport latest equipment, Aug.	79

Cement: shipments from mills may set new record, Dec.	54
---	----

Centralized lubrication cuts costs at Gulf coast Portland Cement Co., Feb.	82
--	----

Ceramic liners increase resistance to abrasion & erosion, June	76
--	----

Chaplin, Anton & Donald P. Meffert	
—Source sampling—the cement plant's Geiger counter, Aug.	88

Chimney duo yields to ministack, Oct.	88
---------------------------------------	----

Choosing a kiln air seal, April	64
---------------------------------	----

Clamshell dredge streamlines operation for Wisconsin producer, March	84
--	----

Classification	
----------------	--

—Fluidized bed separator increases recovery of fine particle sizes, Sept.	95
---	----

—Liquid/solids separation via wet classification, Sept.	84
---	----

W. L. Cobb Construction Co., Ara Peka, Fla., Nov.	86
---	----

Complete engineering services for process plants (Buyer's Guide), Jan.	151
--	-----

Computerization speeds weigh station stops, Sept.	102
---	-----

Concrete & Aggregates 1972 Show Scrapbook, The, April	98
---	----

Conrad, Guenter	
-----------------	--

—Preprocessing in crusher/dryer improves milling efficiency, Nov.	102
---	-----

<b>Construction</b>	
---------------------	--

—Keys to successful cement plant construction, Feb.	69
---	----

—Metro displays healthy appetite for aggregate, Oct.	86
--	----

Consultants specializing in the rock products field (Buyer's Guide), Jan.	151
---	-----

Crawler-mounted crusher solves wet quarry problem, Nov.	86
---	----

Crushed stone	
---------------	--

—The year ahead: 1973, Dec.	59
-----------------------------	----

—Traveling plant supplies backfill for pipeline project, April	94
--	----

Crushed stone: Construction projects point to increasing output, Dec.	59
---	----

Crushed stone plants	
----------------------	--

—Automation speeds blending, loading at Gifford-Hill, Nov.	75
--	----

—Bear Gap—one of three Pennsy sandstone producers, Oct.	80
---	----

—Crawler-mounted crusher solves wet quarry problem, Nov.	86
--	----

—Hammermill reclaims surplus stone, boosts plant capacity, Wagner Quarries Co., Dec.	77
--	----

—Mobile plant meets Everglades building demands, June	52
---	----

—Multiple-stage crushing plant supplies California Water Project, Aug.	72
--	----

—New 1,000-tph plant revitalizes century-old quarry, June	56
---	----

—Portable crusher feeds Kaw Dam project, Nov.	98
---	----

—Quarry thrives in urban area, Elmhurst-Chicago Stone Co., Inc., Feb.	58
---	----

<b>Crushers</b>	
-----------------	--

—Prevent crusher breakdown, June	70
----------------------------------	----

—Secondary crushers for clinker pre-crushing, May	121
---	-----

<b>Crushing</b>	
-----------------	--

—Crushing plant design uses "building-block" approach, Sept.	78
--	----

Crushing, grinding, & feed controls enhance manpower productivity, May	110
--	-----

Crushing, grinding, & milling, (Buyer's Guide), Jan.	132
--	-----

Crushing, grinding, & milling, new products introduced in 1971, Jan.	89
--	----

Crushing plant design uses "building-block" approach, Sept.	78
---	----

<b>Crushing plants</b>	
------------------------	--

—Ecology-minded contractor recycles pavement, Oct.	83
--	----

<b>Cunningham, Chet</b>	
-------------------------	--

—Big rock trucks for 1972, The, Feb.	72
--------------------------------------	----

—Diesel engine research improves power plants, Oct.	58
---	----

—Drivers can guard against slowdown, breakdown, March	82
---	----

—Radial-ply, steel-belted tire, The—Check its advantages for your trucks, April	73
---	----

—Specifying truck transmissions? June	59
---------------------------------------	----

—Truck brakes face stiffer regulations, April	78
<b>Curtis Construction Co., Pacific Northwest, June</b>	81
Customizing baghouses for clinker coolers, Nov.	94
Cut costs with solid film lubricants May	94
Cycling with cement, Dec.	66
Czech pilot plant investigates automation problems in cement manufacture, May	117

## D

<b>DeBeus, Anthony J., &amp; William J. Horst</b>	
—A 1,000-bpd increase with new kiln chain system, Keystone Portland Cement Co., Dec.	85
<b>Denmark's newest cement kiln produces 2,500 tpd of clinker, May</b>	78
<b>Dick, C. J.</b>	
—Maintenance of reciprocating grate coolers, Feb.	86
<b>Diesel engine research improves power plants, Oct.</b>	88
<b>Directory of Services (Buyer's Guide), Jan.</b>	151
<b>Domonoske, Dean D., &amp; Joel F. Loveridge</b>	
—Cut costs with solid film lubricants, May	94
<b>Double-acting burners optimize flame formation, July</b>	80
<b>Dragon Cement Co., Div. of Martin Marietta Corp., Thomaston, Me., May</b>	86
<b>Dragon Cement's modernization guided by five basic design concepts, May</b>	86
<b>Drayton, W. E.</b>	
—Know your kiln's chain system, May	88
<b>Dredging</b>	
—Clamshell dredge streamlines operation for Wisconsin producer, March	84
—Twin-bucket clamshell dredge excavates sand & gravel at 1,000 tph, Aug.	65
<b>Drilling</b>	
—How to save money and minimize downtime on drill jobs, Sept.	98
<b>Drilling (Buyer's Guide), Jan.</b>	126
Drilling & blasting, new products introduced in 1971, Jan.	79
<b>Drills</b>	
—What's new in air drilling, June	62
<b>Driverless truck is reliable robot, April</b>	68
Drivers can guard against slowdown, breakdown, March	82
<b>Dundee Cement Co., Dundee, Mich., May</b>	124
<b>Dust collection</b>	
—Customizing baghouses for clinker coolers, Nov.	94
—Selecting equipment for dust collection from rotary lime kilns? Part 1, July	87
—Part 2, Aug.	66
—Source sampling—the cement plant's Geiger counter, Aug.	83
<b>Dust collection &amp; treatment (Buyer's Guide), Jan.</b>	136
<b>Dust collection &amp; treatment, new products introduced in 1971, Jan.</b>	92
<b>Dust suppression, May</b>	137

## E

<b>Ecology</b>	
—Ecology-minded contractor recycles pavement, Oct.	83
—Ontario firm combines PR and restoration, May	136
<b>Ecology-minded contractor recycles pavement, Oct.</b>	83
<b>Ecology specter pervades LAPA meeting, Dec.</b>	83
<b>Economy, versatility: keys to elevating scrapers' success, Feb.</b>	87
<b>Elevating scrapers</b>	
—Economy, versatility: keys to elevating scrapers' success, Feb.	87
—Elevating scrapers cut costs of overburden removal, March	87
<b>Elevating scrapers</b>	
—New use for old mining tool, June	84
Elevating scrapers cut cost of overburden removal, March	87
<b>Elmhurst-Chicago Stone Co., Elmhurst, Ill., Feb.</b>	54
<b>Engineering a plant for safety, March</b>	78
<b>Engines</b>	
—Diesel engine research improves power plants, Oct.	58
<b>Environmental control</b>	
—Environmental issues confront lime plants, July	71
<b>Environmental issues confront lime plants, July</b>	71

Evaluating drives for large grinding mills, Part 1, Oct.	74
—Part 2, Nov.	107
Equipment + Training = Safety, March	64
Excavating, dredging, & loading (Buyer's Guide), Jan.	127
Excavating, dredging, & loading, new products introduced in 1971, Jan.	81
Exploration & geological services (Buyer's Guide), Jan.	152
Explosives	
—Axial priming improves ANFO blasting, April	76

## F

Fluidized bed separator increases recovery of fine particle sizes, Sept.	95
Foraker, David	
—Single pit provides basalt, gneiss, and sand, June	81
Fordyce Co., San Antonio, Tex., Sept.	70
Fort Dodge salutes its gypsum industry, Oct.	68

## G

Gabbe, William Jr.	
—Keys to successful cement plant construction, Feb.	69
General Portland Cement Co., Dallas, Tex., Nov.	92
General Portland confronts the pollution challenge, Nov.	92
Georgia Pacific (Bestwall Gypsum Div.), Fort Dodge, Iowa, Oct.	68
Gifford-Hill, Bridgeport, Tex., Nov.	75
Gifford-Hill & Co., Dallas, Tex., July	98
Godwin, R. A.	
—Key points in selecting pneumatic & hydraulic conveying systems, Dec.	81
Government ponders allocation of highway funds, Oct.	84
Grancher, Roy A.	
—Cycling with cement, Dec.	66
—Managing cement's upturn, May	90
Grand Coulee Dam, June	81
Gravel plants	
—Gravel plant blends portable, permanent units, Elmhurst-Chicago Stone Co., Feb.	61
Gray, William R.	
—Crushing plant design uses "building-block" approach, Sept.	78
Grinding mills	
—Evaluating drives for large grinding mills, Part 1, Oct.	74
—Part 2, Nov.	107
Guidelines simplify hardfacing, Aug.	75
Gulf Coast Portland Cement Co., Houston, Tex., Feb.	82
Gutschick, Kenneth A.	
—Lime plant safety needs management, employee support, March	72
Gypsum	
—The year ahead: 1973, Dec.	61
Gypsum: Demand paces housing industry boom, Dec.	61
Gypsum production: Ft. Dodge's Number 2 major industry, Oct.	72

## H

Hammermill reclaims surplus stone, boosts plant capacity, Wagner Quarries Co., Dec.	77
Hancher, Donn E. & John A. Havers	
—How to calculate circulating loads, Sept.	67
Hanna Sand & Gravel Co., Hanna, Ind., April	84
Hardfacing	
—Guidelines simplify hardfacing, Aug.	75
Havers, John A. & Donn E. Hancher	
—How to calculate circulating loads, Sept.	67
HDW-Houdaille, Florida, June	52
Heat processing, drying, & cooling (Buyer's Guide), Jan.	137
Heat processing, drying, & cooling, new products introduced in 1971, Jan.	93
John R. Hill, president, Gifford-Hill & Co., Dallas, Tex., July	98
Hoffman, A. H. & J. G. Trasky	
—Evaluating drives for large grinding mills, Part 1, Oct.	74
—Part 2, Nov.	107
Hornberger, Ronald L.	
—Air classification and evaluation, April	70
Horst, William J., & Anthony J. De Beus	
—A 1,000-bpd increase with new kiln chain system, Keystone Portland Cement Co., Dec.	85
Horton & Horton Gravel Co., Victoria, Tex., Oct.	64
How to calculate circulating loads, Sept.	67
How to save money and minimize downtime on drill jobs, Sept.	98

## I

### IEEE

—IEEE cement conference headliners—pollution control, power distribution, automation, July	92
IEEE cement conference headliners—pollution control, power distribution, automation, July	92
Individual's responsibility for safety, The, March	80
Industry trends	
—Upward trend continues for construction minerals sales, July	95
Instruments, controls, & communication (Buyer's Guide), Jan.	140
Instruments, controls, & communication, new products introduced in 1971, Jan.	95
Ironman, Ralph	
—Cement plants abroad sport latest equipment, Aug.	79
—Denmark's newest cement kiln produces 2,500 tpd of clinker, May	78
—Protective chains extend tire life, April	100
—Rubber-lined truck bodies reduce maintenance costs, March	88

## J

Javernick, H. J.	
—Engineering a plant for safety, March	78
Jenike, A. W. & J. R. Johanson	
—Modern bin design facilitates bulk solids flow, Feb.	83
Johanson, J. R. & A. W. Jenike	
—Modern bin design facilitates bulk solids flow, Feb.	83
Joseph, J. M., Jr.	
—Dragon Cement's modernization guided by five basic design concepts, May	86

## K

Kachel, G. C., Jr.	
—Crushing, grinding, & feed controls enhance manpower productivity, May	110
Keep highway fund intact, Vulcan executive urges, Oct.	85
Key points in selecting pneumatic & hydraulic conveying systems, Dec.	81
Keystone Portland Cement Co., Bath, Pa., Dec.	85
Kiln chains	
—A 1,000-bpd increase with new kiln chain system, Keystone Portland Cement Co., Dec.	85
—Know your kiln's chain system, May	88

## L

Laboratory & testing services, (Buyer's Guide), Jan.	152
LAPA	
—Ecology specter pervades LAPA meeting, Dec.	83
—"Share responsibility," advise LAPA speakers, May	135

Legislation	
—Federal laws absorb Safety Congress Attention, Jan.	102
—NSGA considers environmental, safety regulations, April	86
—Safety regulations encompass all industry phases, March	61
—Statistics tell the accident story, March	67
LeGore, Ivan F.	
—What can associations do about plant safety? March	68
Level control—theory & practice, Aug.	60
Level controls	
—Level control—theory & practice, Aug.	60

Levine, Sidney	
—All-new American Cement plant supplies 940,000 tpy, July	99
—Association publications provide safety guidance, March	70
—Automatic sand classifier processes aggregate, Sept.	64
—Ft. Dodge salutes its gypsum industry, Oct.	68
—Fuel cost reduction explored at NLA meeting, Jan.	104
—IEEE cement conference headliners—pollution control, power distribution, automation, July	92
—Liquid/solids separation via wet classification, Sept.	84

Manufacturers' Div. presents Operations Day at NLI meeting, April	80
—NLA convention focuses on lime-based scrubbers, July	91

—Ohio Gravel replaces multi-unit complex with 900-tph plant, Sept.	74
—Special-purpose screens can solve fine-sizing problems, Nov.	81
—Statistics tell the accident story, March	67

—Upward trend continues for construction minerals sales, July	95
Levine, Sidney & Enid W. Stearn	

—The year ahead: 1973, Dec.	53
-----------------------------	----

Lightweight aggregates	
—Open house unveils revitalized shale plant, Masselite Div., Plainville Corp., Dec.	74

Lightweight aggregates: Increased production forecast for all types, Dec.	63
Line	

—The year ahead: 1973, Dec.	60
-----------------------------	----

Lime: Metallurgical & ecological needs spur demand, Dec.	60
--	----

Lime plants	
—Arizona plant boosts metallurgical lime production, July	82

—Multiple-hearth furnace regenerates spent lime for beet-sugar processing, July	83
—Ohio company resumes lime production with 330-tpd rotary kiln, July	76

—Seventh kiln boosts Pfizer's lime production, July	68
Lime plant safety needs management, employee support, March	72

Liners	
—Ceramic liners increase resistance to abrasion & erosion, June	76

Liquid, gas, & air handling equipment (Buyer's Guide), Jan.	131
Liquid, gas, & air handling equipment, new products introduced in 1971, Jan.	89

Liquid/solids separation via wet classification, Sept.	84
--	----

Lone Star Industries, Inc., Greenwich, Conn., Nov.	87
--	----

Lone Star rallies for environmental campaign, Nov.	87
Loveridge, Joel F. and Dean D.	

Dominos	
---------	--

—Cut costs with solid film lubricants, May	94
--	----

Lubricants	
------------	--

—Cut costs with solid film lubricants, May	94
--	----

## M

### Maintenance

—Drivers can guard against slowdown, breakdown, March	82
---	----

—Guidelines simplify hardfacing, Aug.	75
---------------------------------------	----

—How to have money and minimize downtime on drill jobs, Sept.	98
---	----

—Low-profile plant cuts maintenance, Elmhurst-Chicago Stone Co., Feb.	65
---	----

—Maintenance of reciprocating grate coolers, Feb.	86
---	----

—Management extends loader tire life, April	89
---	----

—On-the-spot maintenance program pays off, Aug.	54
---	----

—Prevent crusher breakdown, June	70
----------------------------------	----

—Rubber-lined truck bodies reduce maintenance costs, March	88
--	----

Maintenance, laboratory, & auxiliary supplies (Buyer's Guide), Jan.	142
---	-----

Maintenance, lab, & auxiliary supplies, new products introduced in 1971, Jan.	97
---	----

Maintenance of reciprocating grate coolers, Feb.	86
--	----

Management extends loader tire life, April	89
--	----

Managing cement's upturn, May	90
-------------------------------	----

Manufacturers' Div. presents Operations Day at NLI Meeting, April	80
---	----

Manufacturers Index (Buyer's Guide), Jan.	145
---	-----

Martin Marietta Corp., Thomaston, Me., Oct.	88
---	----

Masselite Div., Plainville Corp., Plainville, Mass., Dec.	74
---	----

Materials handling	
--------------------	--

—Key points in selecting pneumatic & hydraulic conveying systems, Dec.	81
--	----

—Vibrating units control flow of fine powders, June	55
---	----

Materials handling (Buyer's Guide), Jan.	129
--	-----

Materials handling, new products introduced in 1971, Jan.	86
---	----

Meeting reports	
-----------------	--

—Concrete & Aggregates 1972 Show Scrapbook, The, April	98
--	----

—Ecology specter pervades LAPA meeting, Dec.	83
--	----

—Federal laws absorb Safety Congress attention, Jan.	102
--	-----

—Fuel cost reduction explored at NLA meeting, Jan.	104
--	-----

- IEEE cement conference headliners . . .
- pollution control, power distribution, automation, July . . . . . 92
- Manufacturers' Div. presents Operations Day at NLI meeting, April . . . . . 80
- Nation's economy, industry's technology occupy NCSA sessions, April . . . . . 90
- NCSA meets January 21-24, 1973, Dec. . . . . 70
- NLA convention focuses on lime-based scrubbers, July . . . . . 91
- NLI meets January 16-19, 1973, Dec. . . . . 72
- NLI reviews year's activities, Sept. . . . . 73
- NSGA considers environmental, safety regulations, April . . . . . 86
- NSGA meets January 15-17, 1973, Dec. . . . . 71
- Seventh International Cement Seminar, Feb. . . . . 78
- “Share responsibility,” advise LAPA speakers, May . . . . . 135
- Slag industry sees favorable outlook, National Slag Association, Dec. . . . . 65
- Moffert, Donald P. & Anton Chaplin**
- Source sampling—the cement plant's Geiger counter, Aug. . . . . 83
- Messinger, Justin & Robert Alexander**
- Guidelines simplify hardfacing, Aug. . . . . 75
- Metro displays hungry appetite for aggregate, Oct.** . . . . . 86
- Milling**
- Preprocessing in crusher/dryer improves milling efficiency, Nov. . . . . 102
- Mining, blending & agglomerating**
- (Buyer's Guide), Jan. . . . . 134
- Mobile plant meets Everglades building demands, June** . . . . . 52
- Modern bin design facilitates bulk solid flow, Feb.** . . . . . 83
- B. A. Monaghan, Vulcan Materials Co., Oct.** . . . . . 85
- Morgan, J. T.**
- Choosing a kiln air seal, April . . . . . 64
- Motz, J. C.**
- Secondary crushers for clinker pre-crushing, May . . . . . 121
- Multifunctional roller mill processes cement raw material, June** . . . . . 79
- Multiple-hearth furnace regenerates spent lime for beet-sugar processing, July** . . . . . 83
- Multiple-stage crushing plant supplies California Water Project, Aug.** . . . . . 72
- Multishaft lime kiln combines parallel heat flow and regeneration, July** . . . . . 85
- Multivariable control programming maintains steady-state operation, May** . . . . . 124

## N

- Nanassy, Emery**
- Ecology-minded contractor recycles pavement, Oct. . . . . 83
- Multiple-stage crushing plant supplies California Water Project, Aug. . . . . 82
- National Crushed Stone Association**
- Nation's economy, industry's technology occupy NCSA sessions, April . . . . . 90
- NCSA meets January 21-24, 1973, Dec. . . . . 70
- National Gypsum Co., Fort Dodge, Iowa, Oct.** . . . . . 68 & 72
- National Lime Association**
- Fuel cost reduction explored at NLA meeting, Jan. . . . . 104
- NLA convention focuses on lime-based scrubbers, July . . . . . 91
- National Limestone Institute**
- Manufacturers' Div. presents Operations Day at NLI meeting, April . . . . . 80
- NLI meets January 16-19, 1973, Dec. . . . . 72
- NLI reviews year's activities, Sept. . . . . 83
- National Safety Congress**
- Federal laws absorb Safety Congress attention, Jan. . . . . 102
- National Sand & Gravel Association**
- NSGA considers environmental, safety regulations, April . . . . . 86
- NSGA meets January 15-17, 1973, Dec. . . . . 71
- National Slag Association**
- Slag industry sees favorable outlook, Dec. . . . . 65
- Nation's economy, industry's technology**
- occupy NCSA sessions, April . . . . . 90
- NCSA meets January 21-24, 1973 Dec.** . . . . . 70
- Neal Gravel Co., Subs. Interstate Sand & Gravel Co., Attica, Ind., June** . . . . . 73
- Nelson Crushed Stone, Burlington, Ontario, Canada, May** . . . . . 136
- Nelson, Robert T.**
- The individual's responsibility for safety, March . . . . . 80
- New cement process offers many “pluses”, Aug.** . . . . . 57
- New 1,000-tph plant revitalizes century-old quarry, June** . . . . . 56
- New use for old mining tool, June** . . . . . 84
- NLI meets January 16-19, 1973, Dec.** . . . . . 72
- NSGA meets January 15-17, 1973, Dec.** . . . . . 71

## O

- Ogden, R. Lynn**
- Ceramic liners increase resistance to abrasion and erosion, June . . . . . 76
- Ohio company resumes lime production with 330-tph rotary kiln, July** . . . . . 76
- Ohio Gravel Div., Dravo Corp., Newton, Ohio, Sept.** . . . . . 74
- Ohio Gravel replaces multi-unit complex with 900-tph plant, Sept.** . . . . . 74
- 1,000-bpd increase with new kiln chain system, Keystone Portland Cement Co., A. Dec. . . . . 85
- Ontario firm combines PR and restoration, May** . . . . . 136
- On-the-spot maintenance program pays off, Aug. . . . . 54
- Open house unveils revitalized shale plant, Masslite Div., Plainville Corp., Dec.** . . . . . 74

## P

- Paul Lime Plant, Inc., Paul Spur, Ariz., July** . . . . . 82
- Pedersen, H.**
- Double-acting burners optimize flame formation, July . . . . . 80
- Perris Dam and Reservoir, Calif., Aug.** . . . . . 72
- Pfizer, Inc., Minerals, Pigments & Metals Div., Gibsonburg, Ohio, July** . . . . . 68
- Pipelines**
- Limestone slurry transported via 17.6-mile underground pipeline, May . . . . . 101
- Plant design**
- Crushing plant design uses “building-block” approach, Sept. . . . . 78
- Dragon Cement's modernization guided by five basic design concepts, May . . . . . 86
- How to calculate circulating loads, Sept. . . . . 67
- Keys to successful cement plant construction, Feb. . . . . 69
- Pollution control**
- Dust suppression, May . . . . . 137
- Environmental issues confront lime plants, July . . . . . 71
- General Portland confronts the pollution challenge, Nov. . . . . 92
- Lone Star rallies for environmental campaign, Nov. . . . . 87
- Selecting equipment for dust collection from rotary lime kilns? July . . . . . 87
- Part 2, Aug. . . . . 66
- Source sampling—the cement plant's Geiger counter, Aug. . . . . 83
- Portable crusher feeds Raw Dam project, Nov.** . . . . . 98
- Power (Buyer's Guide) Jan.** . . . . . 139
- Power & power transmission, new products introduced in 1971, Jan.** . . . . . 94
- Power transmission**
- Evaluating drives for large grinding mills, Part 1, Oct. . . . . 74
- Part 2, Nov. . . . . 107
- Power transmission (Buyer's Guide), Jan.** . . . . . 138
- Preheaters**
- Suspension preheater system consumes less fuel, May . . . . . 70
- Prels, A. & J. W. Seebald**
- A new basic refractory, Nov. . . . . 113
- Preprocessing in crusher/dryer improves milling efficiency, Nov.** . . . . . 102
- Presplitting bonuses optimize blasting, Aug.** . . . . . 58
- Prevent crusher breakdown, June** . . . . . 70
- Primary plant paces excavator in Texas pit, Oct.** . . . . . 64
- Protective chains extend tire life, April** . . . . . 100

## Q

- Quarrying**
- Quarry thrives in urban area, Elmhurst, Chicago Stone Co., Feb. . . . . 58
- R**
- Radial-ply, steel-belted tire, The**
- Check its advantages for your trucks, April . . . . . 73
- Steve P. Rados, Inc., The, Calif., April** . . . . . 94
- Railroad equipment (Buyer's Guide), Jan.** . . . . . 129
- Railroads**
- Rail shipments extend Neal Gravel's market area, June . . . . . 73
- Rail shipments extend Neal Gravel's market area, June** . . . . . 73
- Reasonable care guards against liability lawsuits, March** . . . . . 75
- Reclamation**
- Needed: Pre-planning in reclamation (Symposium of the Rehabilitation of Drastically Disturbed Surface Mined Lands), Jan. . . . . 100
- Warrenville pit is 300-acre showplace, Elmhurst-Chicago Stone Co., Feb. . . . . 63

- Reduce crushing hazards, March** . . . . . 76
- Refractories**
- A new basic refractory, Nov. . . . . 113
- Research Institute for Building Materials, Brno, Czechoslovakia, May** . . . . . 117
- Robertson, Joseph L.**
- Automatic reblanding cuts “Out-of-spec” losses, April . . . . . 84
- Automation speeds blending, loading at Gifford-Hill, Nov. . . . . 75
- Barge shipping extends Texas company's market, Sept. . . . . 70
- Bear Gap—one of three Pennsy sandstone producers, Oct. . . . . 80
- Clamshell dredge streamlines operation for Wisconsin producer, March . . . . . 84
- Elmhurst-Chicago Stone Co.: Four generations of success, Feb. . . . . 54
- Equipment + Training = Safety, March . . . . . 64
- Hammermill reclaims surplus stone, boosts plant capacity, Wagner Quarries Co., Dec. . . . . 77
- Nation's economy, industry's technology occupy NCSA sessions, April . . . . . 90
- Needed: Pre-planning in reclamation (Symposium of the Rehabilitation of Drastically Disturbed Surface Mined Lands), Jan. . . . . 100
- New 1,000-tph plant revitalizes century-old quarry, June . . . . . 56
- Ohio company resumes lime production with 330-tph rotary kiln, July . . . . . 76
- Primary plant paces excavator in Texas pit, Oct. . . . . 64
- Rail shipments extend Neal Gravel's market area, June . . . . . 73
- Seventh kiln boosts Pfizer's lime production, July . . . . . 68
- Slag industry sees favorable outlook, National Slag Association, Dec. . . . . 65
- Roller mills**
- Multifunctional roller mill processes cement raw material, June . . . . . 79
- Rosa, Dr. Josef**
- Czech pilot plant investigates automation problems in cement manufacture, May . . . . . 117
- Rubber-lined truck bodies reduce maintenance costs, March** . . . . . 88

## S

- Safety**
- Association publications provide safety guidance, March . . . . . 70
- Centralized lubrication cuts costs at Gulf coast Portland Cement Co., Feb. . . . . 82
- Engineering a plant for safety, March . . . . . 78
- Equipment + Training = Safety, March . . . . . 64
- The individual's responsibility for safety, March . . . . . 80
- Lime plant safety needs management, employee support, March . . . . . 72
- Reasonable care guards against liability lawsuits, March . . . . . 75
- Reduce crushing operation hazards, March . . . . . 76
- Safety regulations encompass all industry phases, March . . . . . 61
- Statistics tell the accident story, March . . . . . 67
- What can associations do about plant safety? March . . . . . 68
- Who takes the blame for accidents? March . . . . . 81
- Safety equipment & devices (Buyer's Guide), Jan.** . . . . . 143
- Safety equipment & devices, new products introduced in 1971, Jan.** . . . . . 99
- Safety regulations encompass all industry phases, March** . . . . . 61
- Salvage & liquidation services (Buyer's Guide), Jan.** . . . . . 152
- Sand & gravel**
- The year ahead: 1973, Dec. . . . . 57
- Sand & gravel: Annual production approaches billion-ton mark, Dec.** . . . . . 57
- Sand & gravel plants**
- Automatic reblanding cuts “Out-of-spec” losses, April . . . . . 84
- Automatic sand classifier processes aggregate, Sept. . . . . 64
- Barge shipping extends Texas company's market, Sept. . . . . 70
- Clamshell dredge streamlines operation for Wisconsin producer, March . . . . . 84
- Gravel plant blends portable, permanent units, Elmhurst-Chicago Stone Co., Feb. . . . . 61
- Low profile plant cuts maintenance, Elmhurst-Chicago Stone Co., Inc., Feb. . . . . 65
- Ohio Gravel replaces multi-unit complex with 900-tph plant, Sept. . . . . 74
- Primary plant paces excavator in Texas pit, Oct. . . . . 64
- Rail shipments extend Neal Gravel's market area, June . . . . . 73

—Twin-bucket clamshell dredge excavates sand and gravel at 1,000 tph, Aug.	65
—Warrenville pit is 300-acre showplace, Elmhurst-Chicago Stone Co., Feb.	63
Schauer, S. & E. J. Klovers	
—Multifunctional roller mill processes cement raw material, June	79
Schroth, Dr. Gerd A.	
—Suspension preheater system consumes less fuel, May	70
Schueler, J. A.	
—General Portland confronts the pollution challenge, Nov.	92
Screening	
—Special-purpose screens can solve fine-sizing problems, Nov.	81
Screening & sizing (Buyer's Guide), Jan.	138
Screening & sizing, new products introduced in 1971, Jan.	91
Schwarzkopf, Florian	
—Multishift lime kiln combines parallel heat flow and regeneration, July	85
Secondary crushers for clinker pre-crushing, May	121
Sebald, J. W. & A. Preis	
—A new basic refractory, Nov.	118
Selecting equipment for dust collection from rotary lime kilns? July	87
—Part 2, Aug.	66
Separation	
—Fluidized bed separator increases recovery of fine particle sizes, Sept.	95
Service Index, (Buyer's Guide), Jan.	153
Seventh International Cement Seminar, Feb.	78
Seventh kiln boosts Pfizer's lime production, July	68
"Share responsibility," advise LAPA speakers, May	135
Shipping	
—Barge shipping extends Texas company's market, Sept.	70
—Rail shipments extend Neal Gravel's market area, June	73
Shrimpton, D. J. & D. H. Wheeler	
—Environmental issues confront lime plant, July	71
Simeone Stone Corp., Wrentham, Mass., Aug.	54
Single pit provides basalt, gneiss, & sand, June	81
Slag	
—The year ahead: 1973, Dec.	62
Slag industry sees favorable outlook, National Slag Association, Dec.	65
Slag: Processors predict another good sales year, Dec.	62
Societe des Ciments Libanais boosts production with new plant, May	67
Societe des Ciments Libanais, Lebanon, May	67
Source sampling—the cement plant's Geiger counter, Aug.	83
Spang, Robert C.	
—Level control—theory & practice, Aug.	60
Specifying truck transmissions?	
June	59
Special-purpose screens can solve fine-sizing problems, Nov.	81
Spreckels Sugar Factory, Manteca, Calif., July	83
Statistics tell the accident story, March	67
Stearn, Enid W.	
—Canadian cement: its influence in the U.S., Aug.	70
—Ecology specter pervades LAPA meeting, Dec.	83
—Federal laws absorb Safety Congress attention, Jan.	102
—Government ponders allocation of highway funds, Oct.	84
—Keep highway fund intact, Vulcan executive urges, Oct.	85
—Lone Star rallies for environmental campaign, Nov.	87
—Metro displays healthy appetite for aggregate, Oct.	86
—Mobile plant meets Everglades building demands, June	52
NLI reviews year's activities, Sept.	83
—NSGA considers environmental, safety regulations, April	86
—Open house unveils revitalized shale plant, Masslite Div., Plainville Corp., Dec.	74
—Reasonable care guards against liability lawsuits, March	75
—Safety Regulations Encapsulate All Industry Phases, March	61
—"Share responsibility," advise LAPA speakers, May	135
—What's behind Gifford-Hill's dynamic growth? July	98
—Year ahead: 1973, The, Dec.	53
Strecker Construction Co., Santa Fe Springs, Calif., Oct.	83
Suspension preheater system consumes less fuel, May	70

Szaj, Arnold P.	
—Prevent crusher breakdown, June	70
—Reduce crushing operation hazards, March	76

## T

Teller, Albert E.	
—Axial priming improves ANFO blasting, April	76
—Presplitting bonuses optimize blasting, Aug.	58
Three U. K. aggregate plants go onstream, June	65
Tires	
—Management extends loader tire life, April	89
—Protective chains extend tire life, April	100
—The radial-ply, steel-belted tire—Check its advantages for your trucks, April	73
Toles, George E.	
—Ontario firm combines PR and restoration, May	136
Trade Associations (Buyer's Guide), Jan.	155
Transmissions	
—Specifying truck transmissions? June	59
Trasky, J. G. & A. H. Hoffman	
—Evaluating drives for large grinding mills, Part 1, Oct.	74
—Part 2, Nov.	107
Trinity Concrete Products Co.	
Lake Charles, La., March	87
Tri-State Stone Co., Oklahoma, Nov.	98
Truck brakes face stiffer regulations, April	78
Trucks	
—BIG rock trucks for 1972, The, Feb.	72
—Diesel engine research improves power plants, Oct.	58
—Driverless truck is reliable robot, April	68
—Drivers can guard against slowdown, breakdown, March	82
—Radial-ply, steel-belted tire, The—Check its advantages for your trucks, April	73
—Rubber-lined truck bodies reduce maintenance costs, March	88
—Specifying truck transmissions? June	59
—Truck brakes face stiffer regulations, April	78
Trucks, accessories, & transportation, new products introduced in 1971, Jan.	84
Trucks & trailers (Buyer's Guide), Jan.	128
Twin-bucket clamshell dredge excavates sand & gravel at 1,000 tph, Aug.	65

## U

Unclassified (Buyer's Guide), Jan.	144
Underground haul equipment & accessories (Buyer's Guide), Jan.	129
United States Gypsum Co., Fort Dodge, Iowa, Oct.	68
Unit trains	
—Twin-bucket clamshell dredge excavates sand & gravel at 1,000 tph, Aug.	65
Upward trend continues for construction minerals sales, July	95

## V

Van Dornick, E.	
—New cement process offers many "pluses", Aug.	57
van Ormer, H. P.	
—How to save money and minimize downtime on drill jobs, Sept.	98
Vibrating units control flow of fine powders, June	55
Victor Sand & Concrete, Inc., Topeka, Kans., Sept.	64
Volitz, Leslie S.	
—Who takes the blame for accidents? March	81

## W-X-Y-Z

Wagner Quarries Co., Sandusky, Ohio, Dec.	77
Wahl, E. A.	
—Vibrating units control flow of fine powders, June	55
Washing, classifying, & beneficiation (Buyer's Guide), Jan.	135
Washing, classifying, & beneficiation, new products introduced in 1971, Jan.	92
What can associations do about plant safety? March	68
What cement's future hinges on, May	105
What's behind Gifford-Hill's dynamic growth? July	98
What's new in air drilling, June	62
Wheeler, D. H. & D. J. Shrimpton	
—Environmental issues confront lime plants, July	71
Who takes the blame for accidents? March	81

Williams, Robert M.	
—Fluidized bed separator increases recovery of fine particle sizes, Sept.	95
Woodville Lime & Chemical Co., Woodville, Ohio, July	76
Wright, Robert J.	
—Customizing baghouses for clinker coolers, Nov.	94
Year ahead: 1973, The, Dec.	58

# REPRINTS

of articles appearing in the January through December, 1972 issues of ROCK PRODUCTS are available in reprint form. Minimum order of 100 copies.

Write for quantity prices to:

# ROCK PRODUCTS

300 West Adams Street  
Chicago, Illinois 60606